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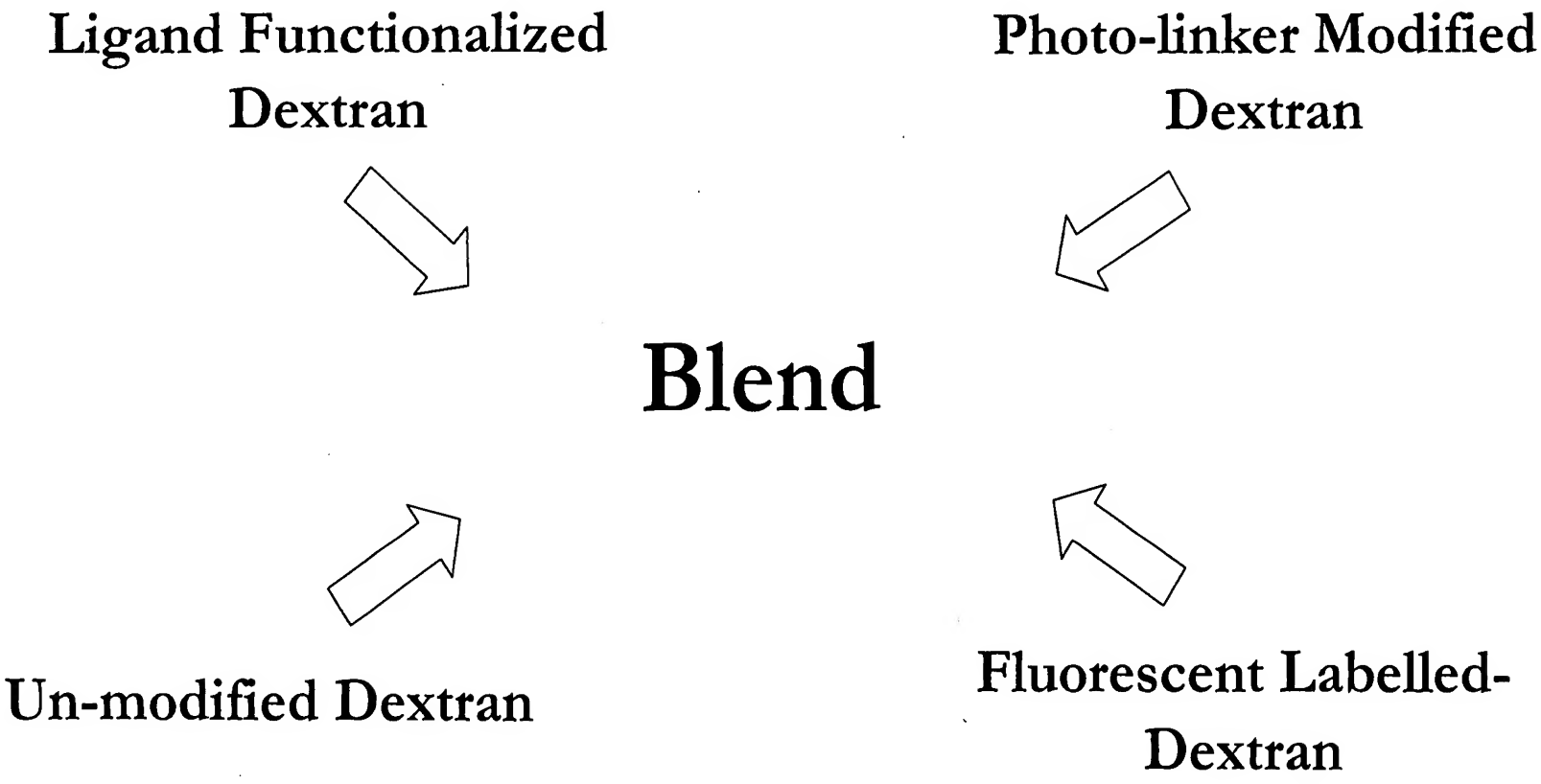
Chemistry Platform of Polymer Blend



- Un-modified dextran (as a diluent of ligand functionalized dextran and/or photo-linker modified dextran to adjust ligand and cross-linker density)
- Fluorescence labeled-dextran

Figure 1

Synthesis of Photocross-linkable Monomer

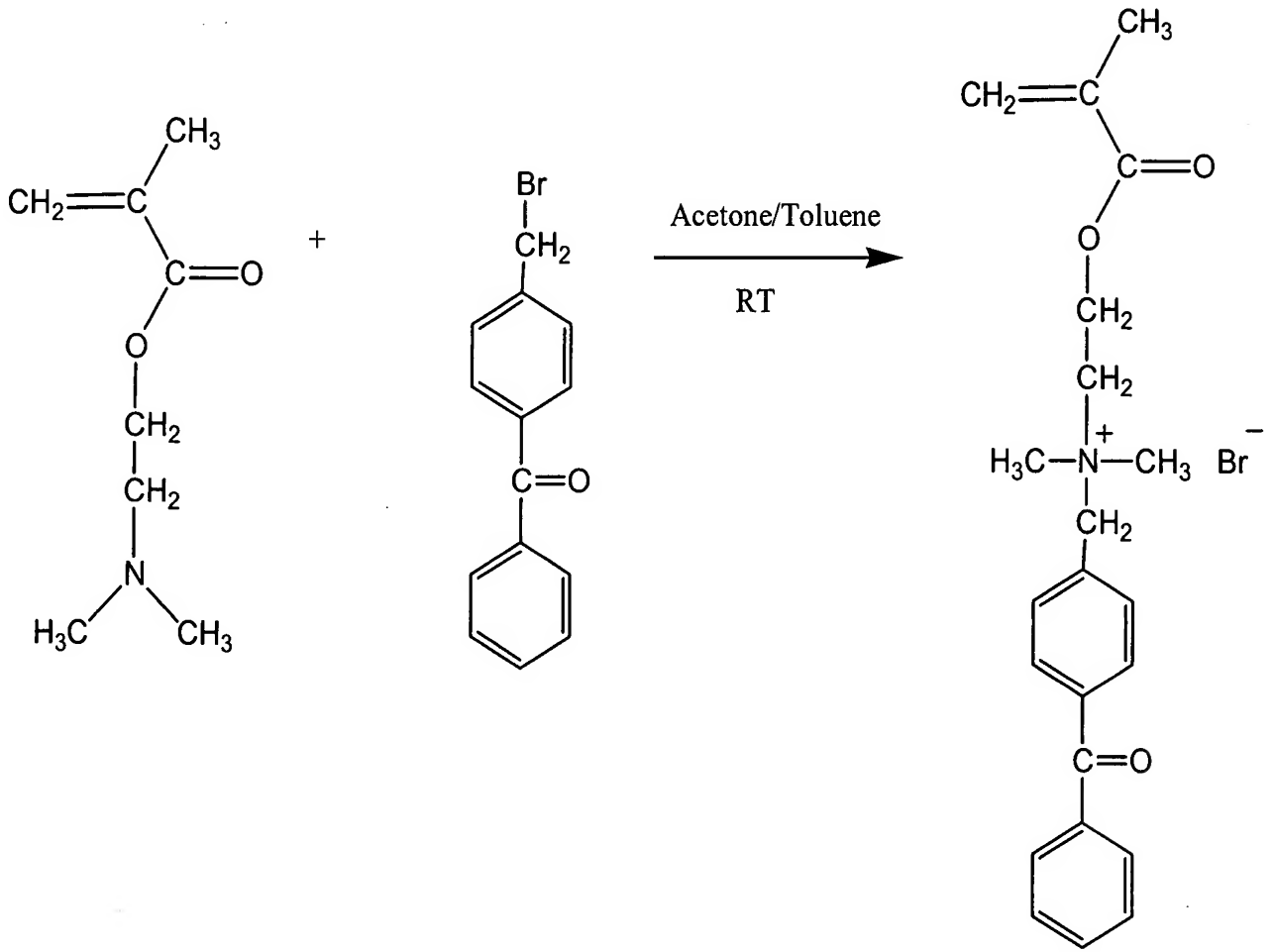


Figure 2

Title: PHOTOCROSSLINKED HYDROGEL BLEND SURFACE COATINGS
Inventor(s): Pil-je Um et al.
DOCKET NO.: 035394-0256

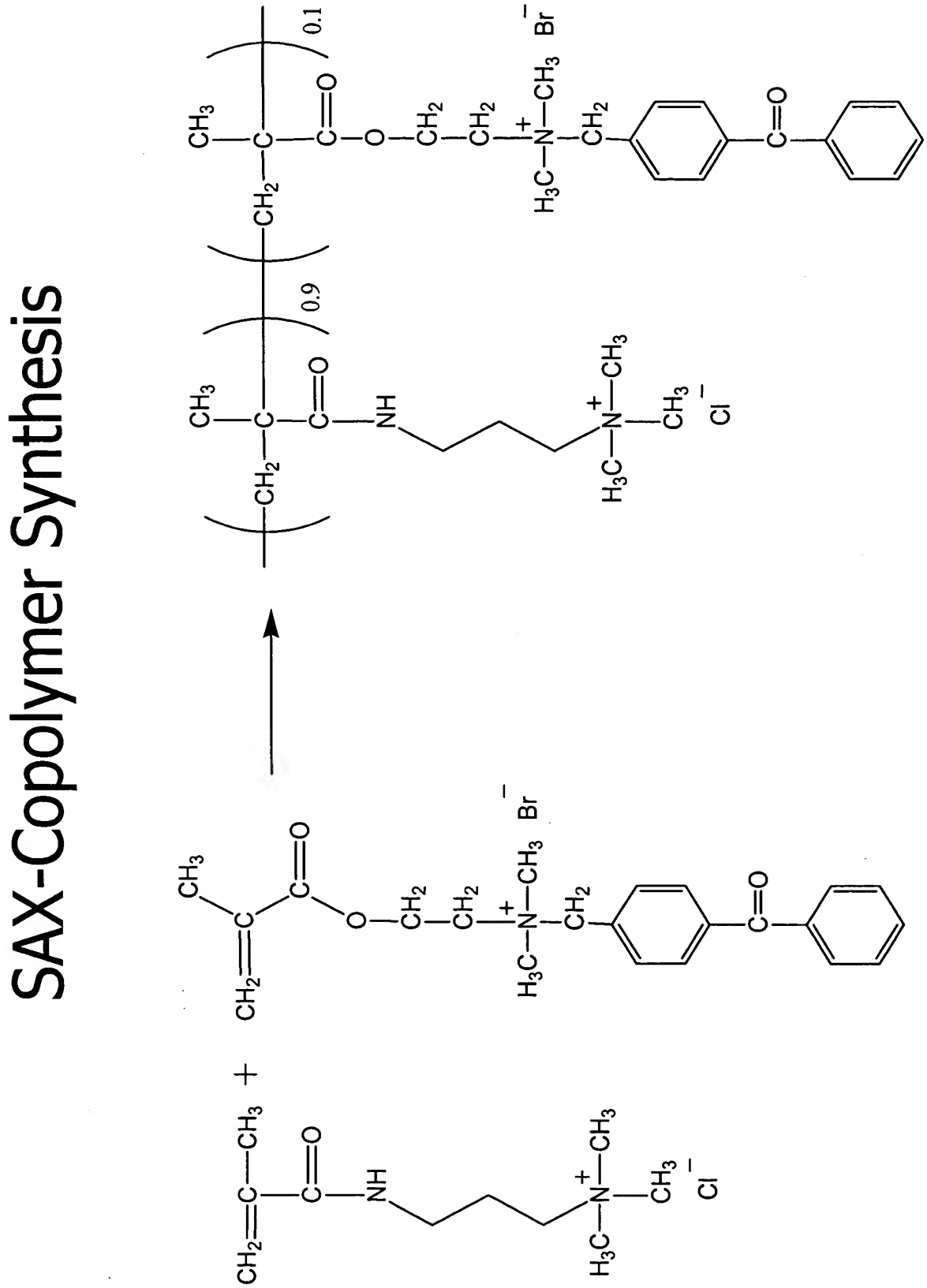


Figure 3

SELDI Spectra of 3 mol.% BP SAX Chip Prepared by Blending (a) Low Mass Range (2-30 kDa), (b) High Mass Range (30 -160 kDa)

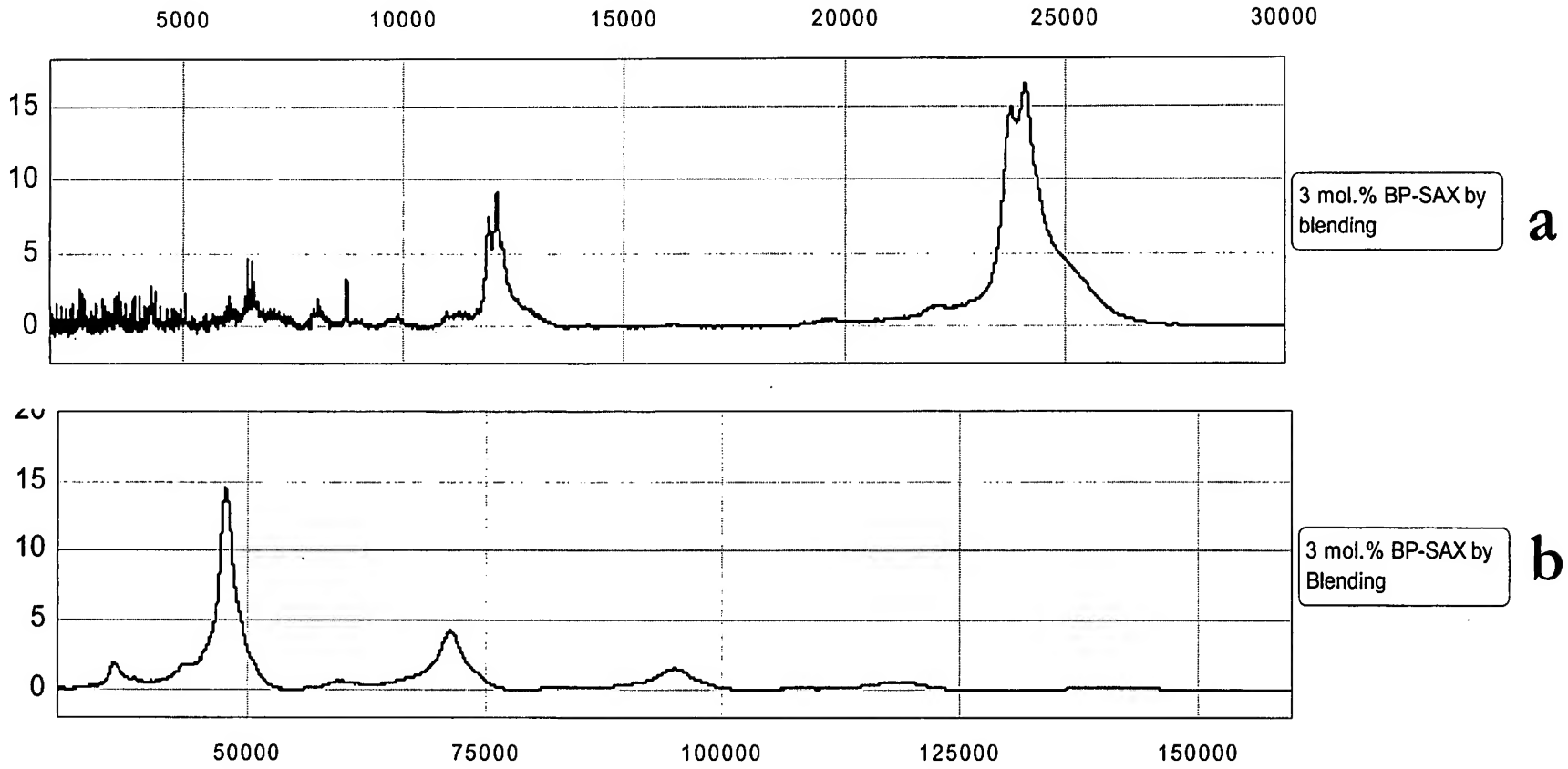


Figure 4

Derivatization of Dextran with Benzophenone

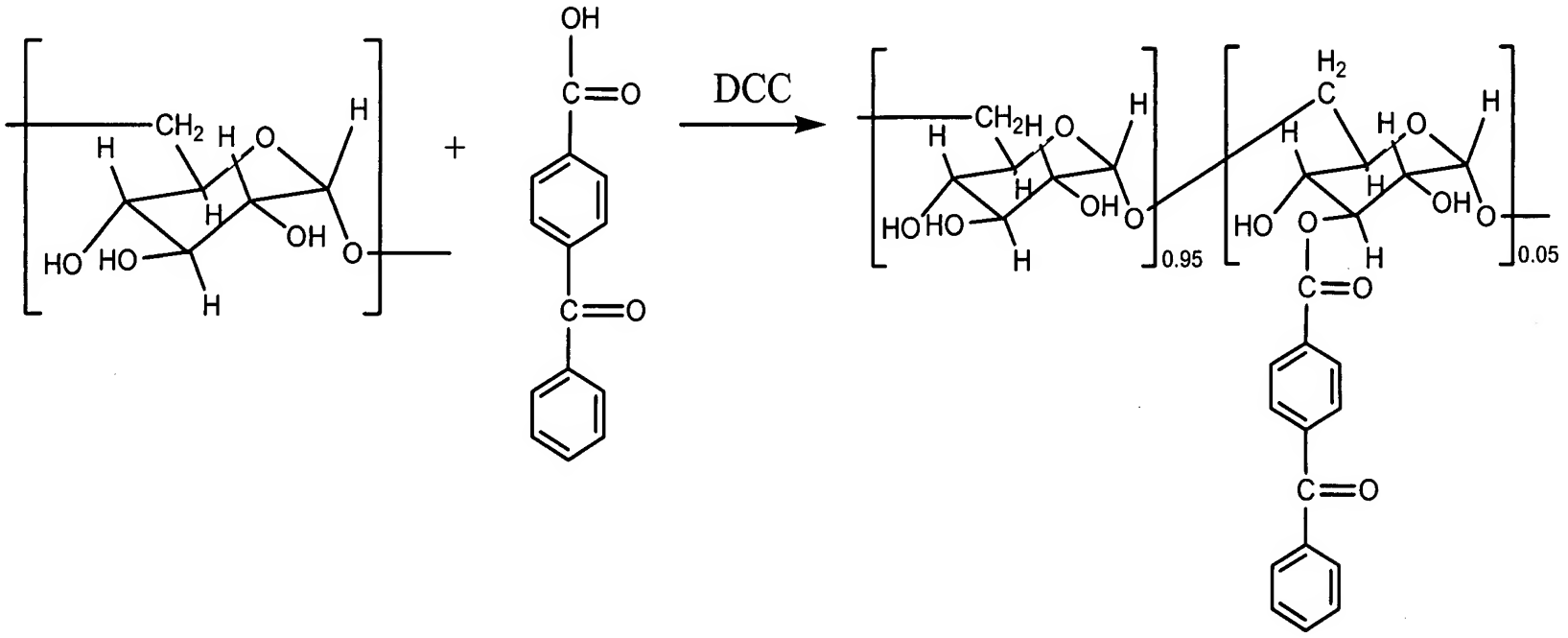


Figure 5

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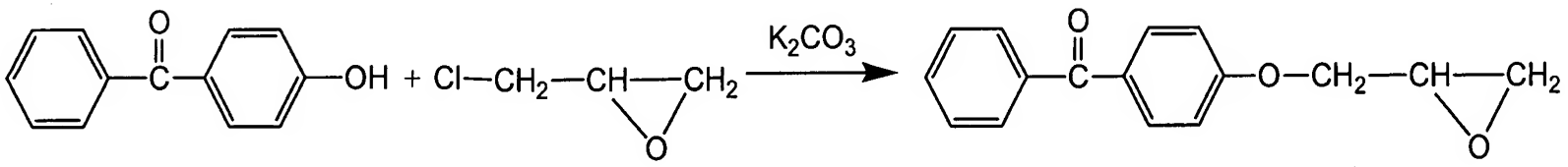
Inventor(s): Pil-je Um et al.
DOCKET NO.: 035394-0256

Synthesis of 4-(Glycidyloxy)benzophenone



4-(Glycidyloxy)benzophenone

Figure 6

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Inventor(s): Pil-je Um et al.
DOCKET NO.: 035394-0256

Derivatization of Dextran with Benzophenone

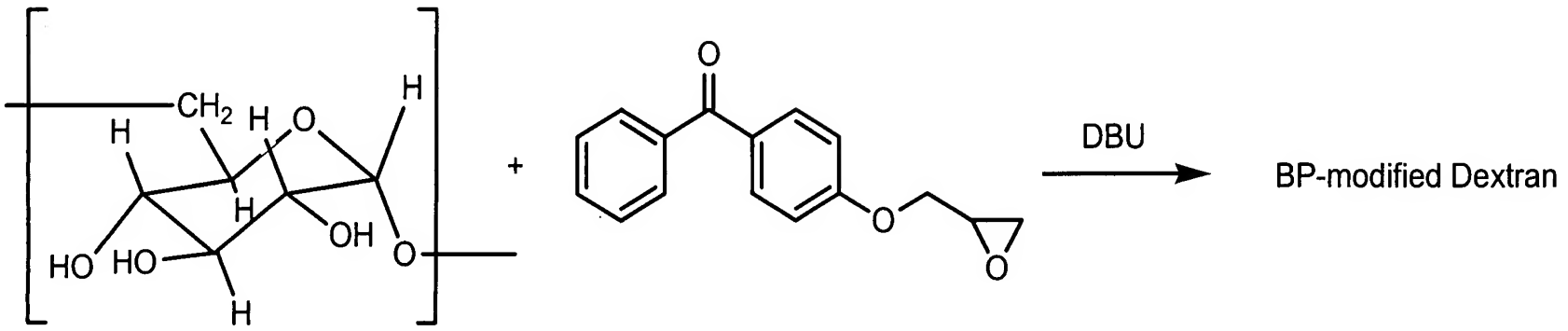

Figure 7

Title: PHOTOCROSSLINKED HYDROGEL BLEND SURFACE COATINGS
Inventor(s): Pil-je Um et al.
DOCKET NO.: 035394-0256

FTIR Spectra of (a) Dextran Hydrogel ; (b) CDI-activated Dextran Hydrogel on Al chip

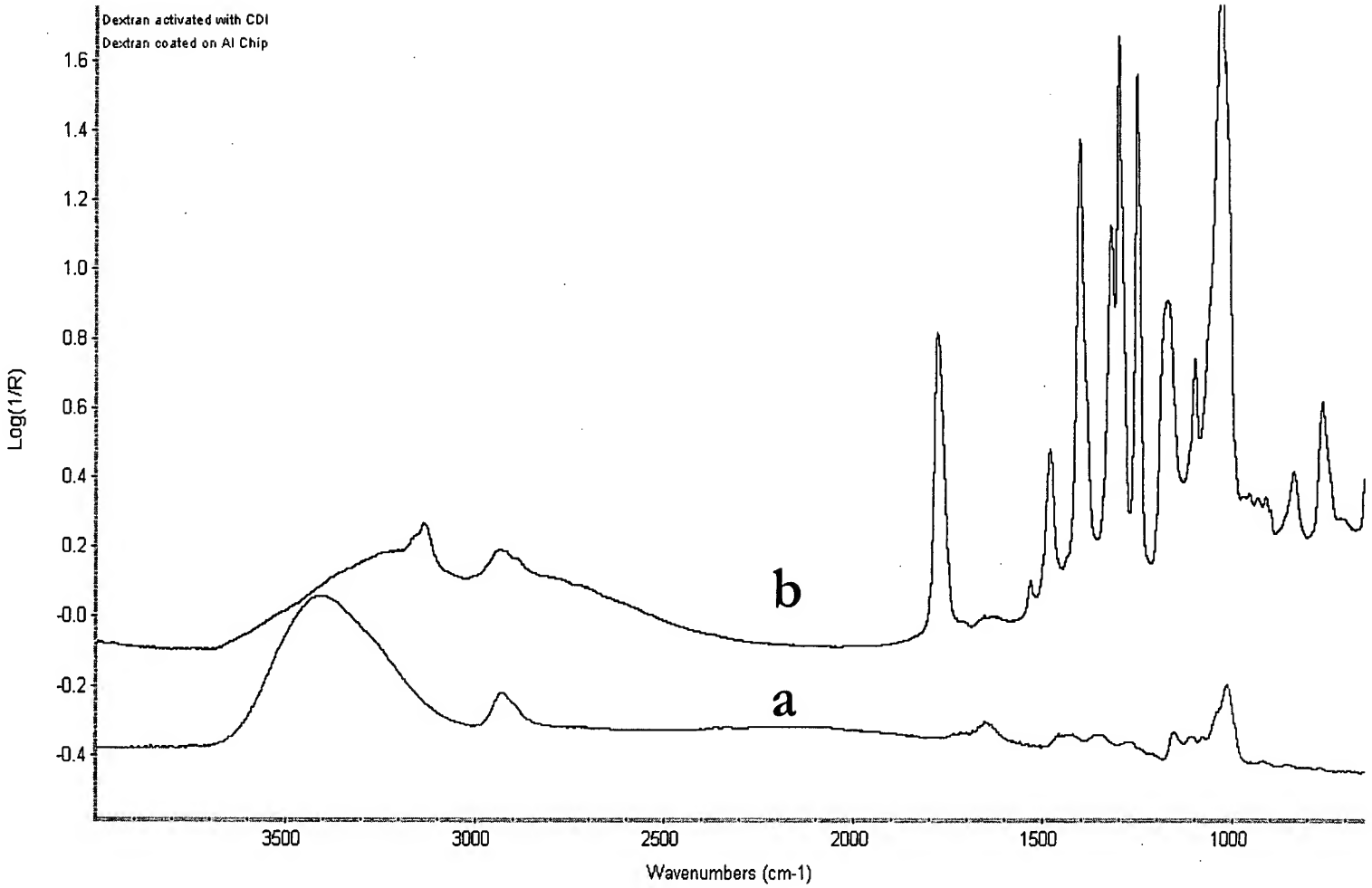

Figure 8

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Inventor(s): Pil-je Um et al.
DOCKET NO.: 035394-0256

SELDI Spectrum of CDI-Dextran Chip Used for an Antibody-Antigen Recognition Study

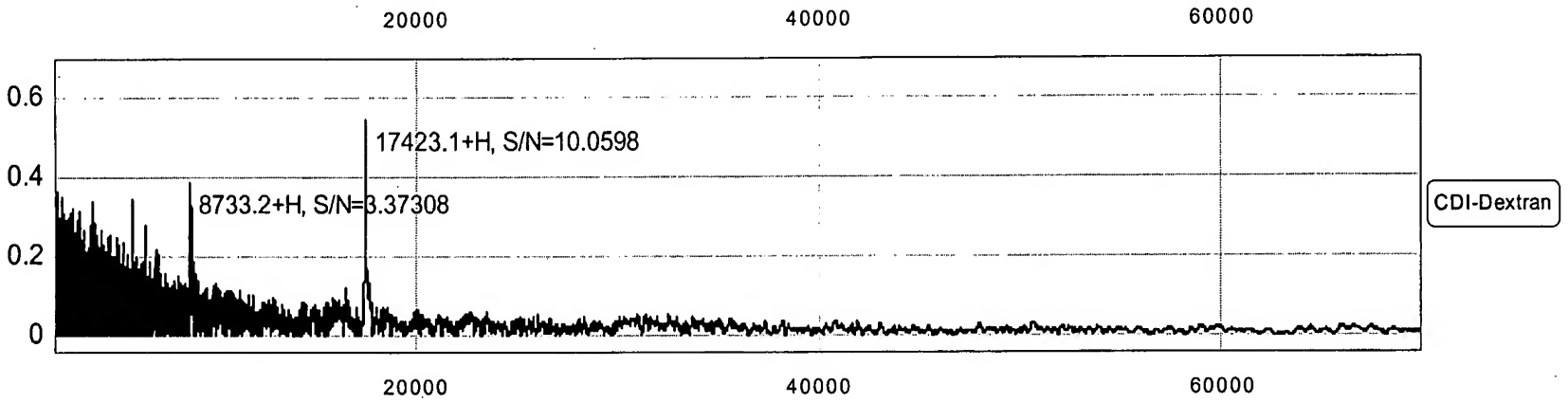

Figure 9

SELDI Spectra of DEAE Chip in the (a) Low Mass (2-20kDa), and (b) High Mass (20-160 kDa)

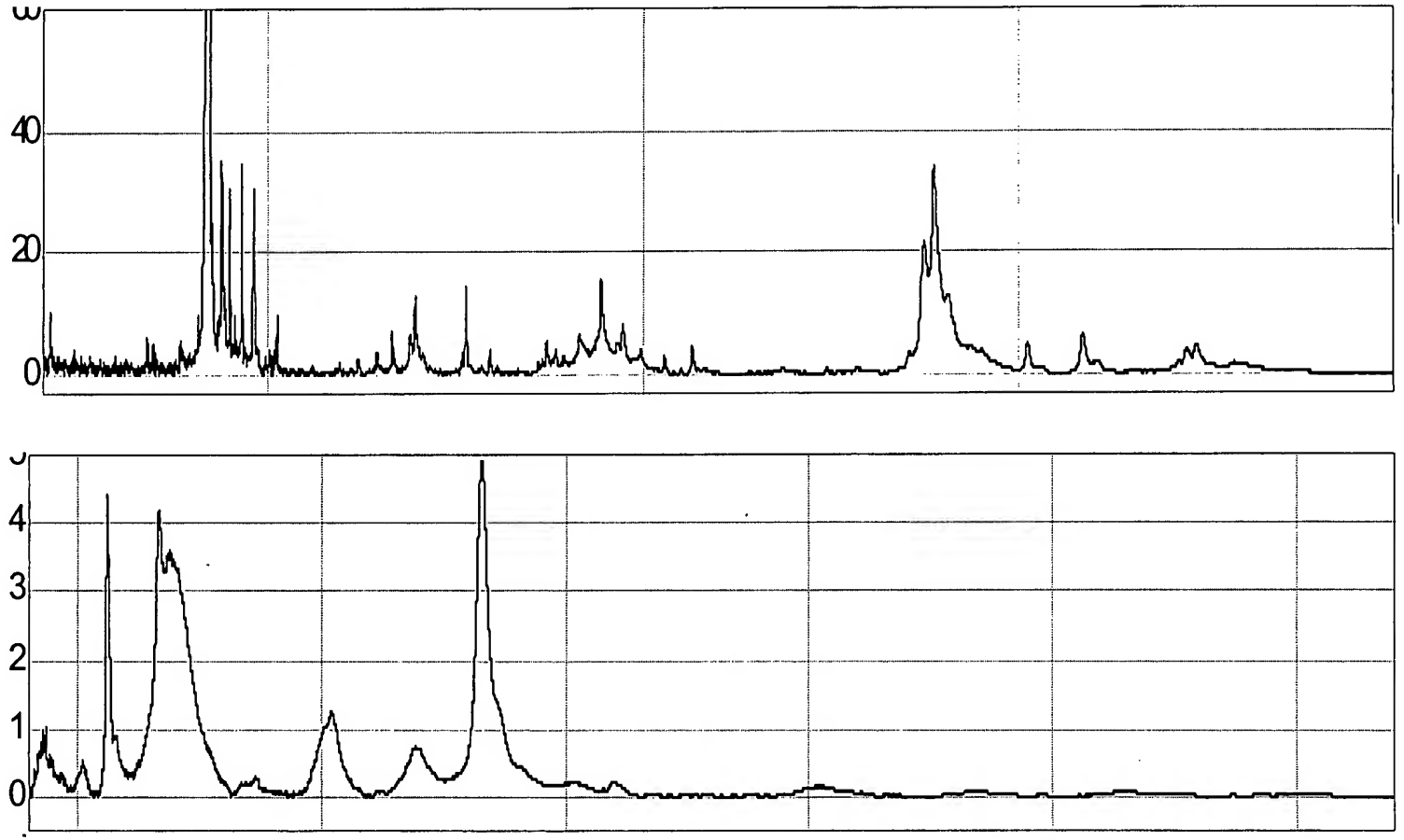

Figure 10

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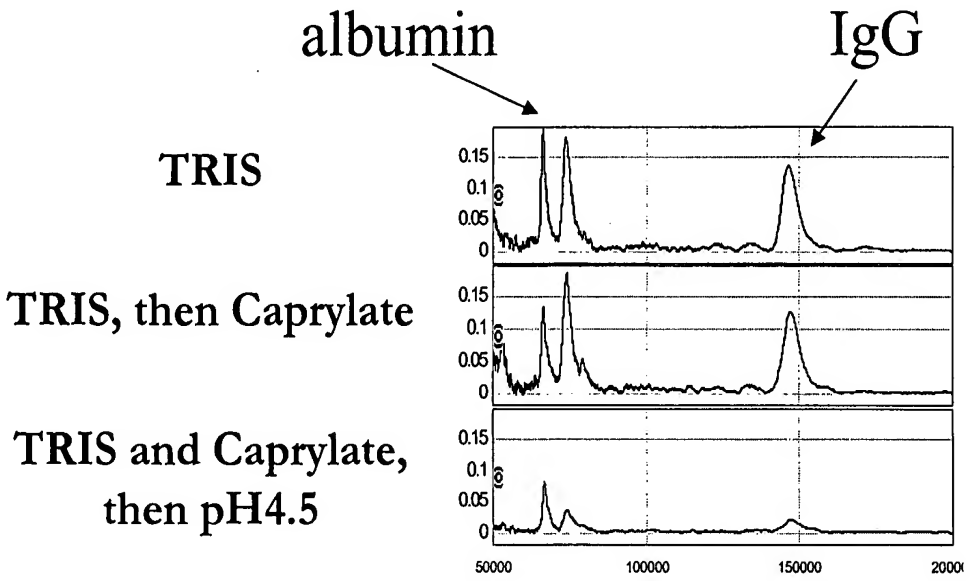
MEP Dyed with Ponceau S

MEP Gel Coated

Bare Substrate

Selective Binding/Washing of IgG on MEP

- IgG is strongly bind to MEP Array at physiological condition, such as PBS (or TRIS) 7.2.
- Albumin is washed off little more with hydrophobic detergent like Caprylate.
- Then by lowering pH to 4.5 where MEP becomes charged, IgG is washed off.



Title: PHOTOCROSSLINKED HYDROGEL BLEND SURFACE COATINGS
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DOCKET NO.: 035394-0256

Profiling of Albumin Depleted Serum

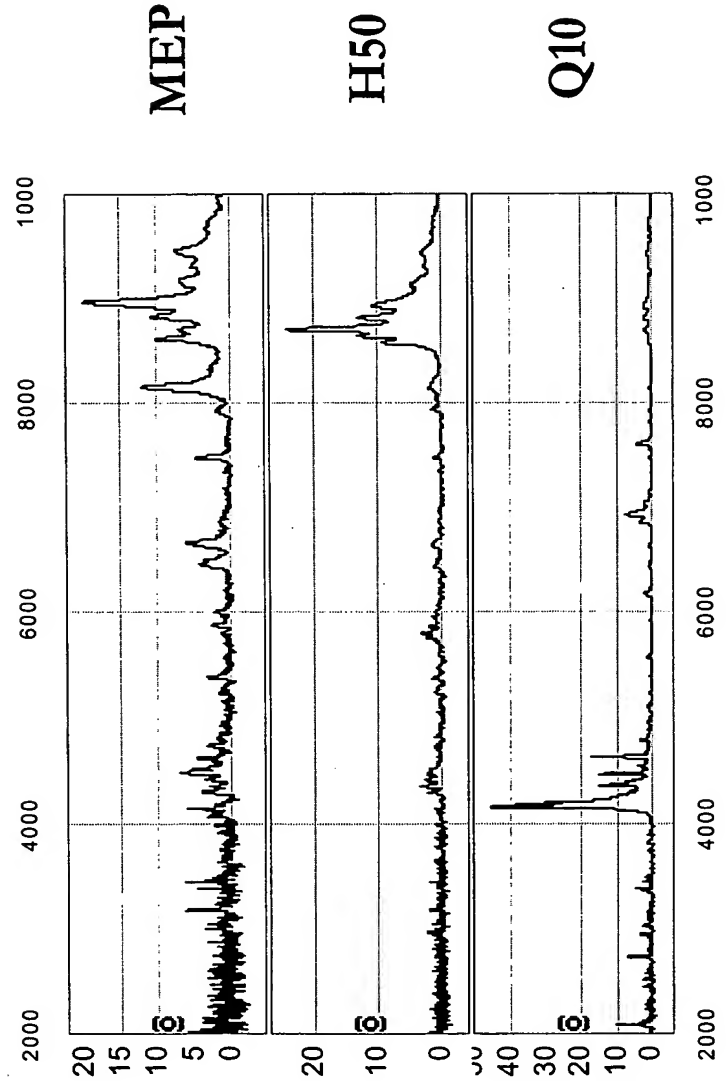

Fig. 12

Title: PHOTOCROSSLINKED HYDROGEL BLEND SURFACE COATINGS
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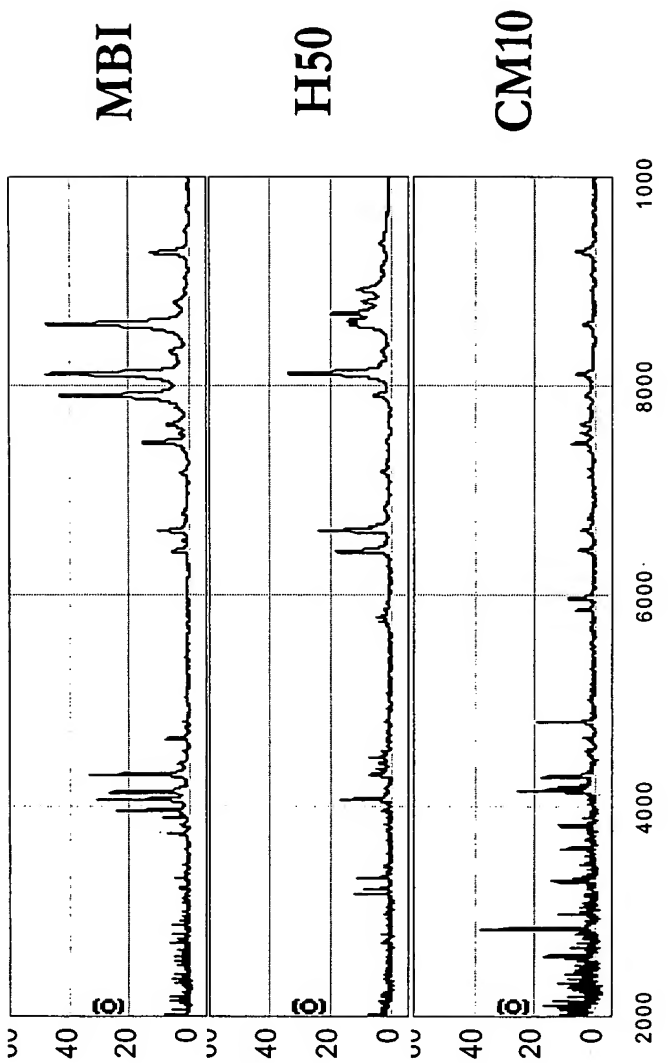
DOCKET NO.: 035394-0256

Profiling of Albumin Depleted Serum



Profiling of Albumin Depleted Serum

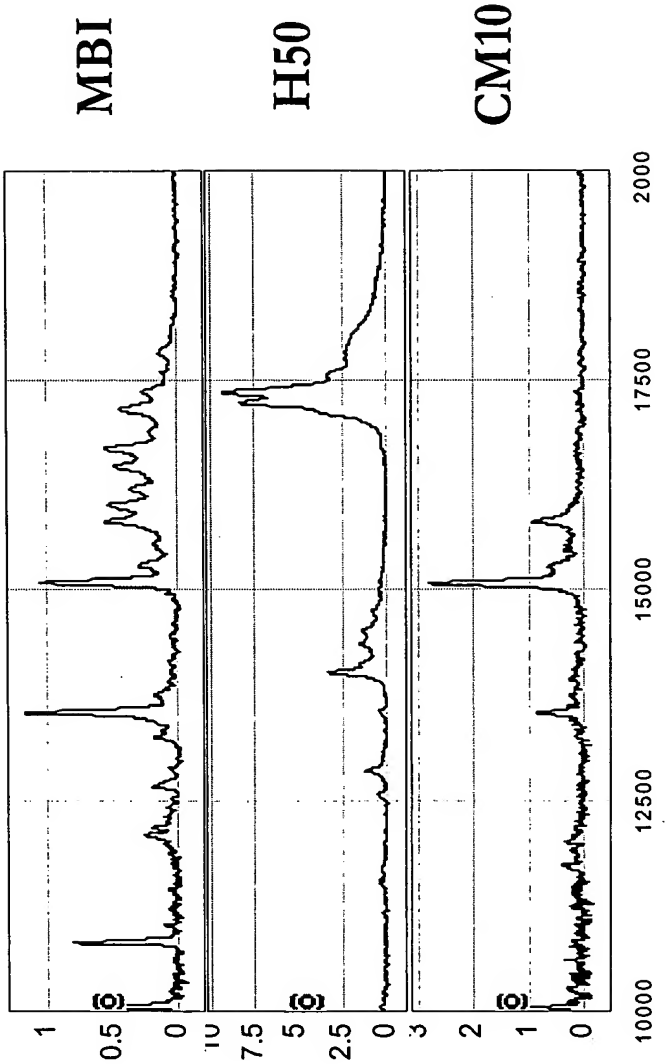


FIG 15